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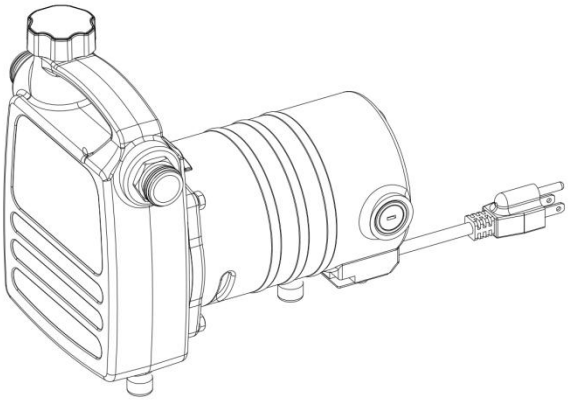
PORTABLE UTILITY PUMP

USR MANUAL

We continue to be committed to provide you tools with competitive price.
"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and doses not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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TOUGH TOOLS, HALF PRICE

PORTABLE UTILITY PUMP



SET UP AND OPERATING INSTRUCTIONS

NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

 Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance, and cleaning procedures. Write the product s serial number on the back of the manual near the assembly diagram (or the month and year of purchase if the product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY

In this manual, on the labeling and all other information provided with this product:

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION CAUTION, used with the safety alert symbol, indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE NOTICE is used to address practices not related to personal injury.

CAUTION CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

GENERAL POWER TOOL SAFETY

WARNING Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1.Work area safety

a.Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.

b.Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks that may ignite dust or fumes.

a. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.Electrical safety

a.Power tool plugs must match the outlet- Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.

b. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.

c.Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.

e.When operating a power tool outdoors, use an extension cord suitable for outdoor use. The use of a cord suitable for outdoor use reduces the risk of electric shock

f.If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of
a GFCI reduces the risk of electric shock.

3.Personal safety

a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury

b. Use personal protective equipment. Always wear eye protection.
Safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce personal injuries.

c.Prevent unintentional starting.
Ensure the switch is in the off-position before connecting to the power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

d.Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e.Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f.Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

g.If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. The

use of these devices can reduce dust-related hazards

h. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved, and breathing protection must be NIOSH-ap- proved for the specific hazards in the work area.

4.Power tool use and care

a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed

b.Do not use the power tool if the switch does not turn on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c.Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tools' operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g.Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5.Service

a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

PORTABLE PUMP SAFETY WARNINGS

1.Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

2.Avoid unintentional starting. Prepare to begin work before turning on the tool.

3.Do not leave the tool unattended when it i$ plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.

4.This product is not a toy. Keep it out of reach of children.

5.People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to the heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: Avoid operating alone.

- Do not use the power switch locked on.
- Properly maintain and inspect to avoid electrical shock.
- Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFC1) should also be implemented-it prevents sustained electrical shock.

6.WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling (California Health & Safety Code § 25249.5, et seq.)

7.WARNING: The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code § 25249 5t et seq.)

8.The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product but must be supplied by the operator.

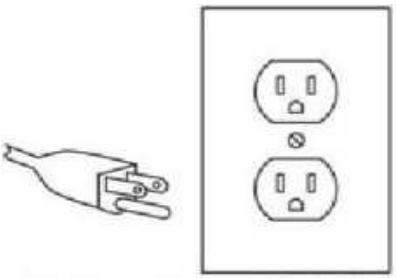
SAVE THESE INSTRUCTIONS.

GROUNDING

WARNING TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION ：

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug does not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDED TOOLS: TOOLS WITH THREE PRONG PLUGS



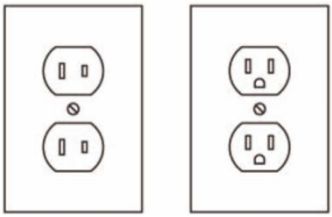
3-Prong Plug and Outfet

1. Tools marked with "Grounding Required" have a three-wire cord and three-prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See 3-Prong Plug 2. and Outlet.)

2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to 1. the tool's grounding system and must never be attached to an electrically "live" terminal. (See 3-Prong Plug and Outlet.)

3.The tool must be plugged into an appropriate outlet, properly installed, and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. (See 3-Prong Plug and Outlet.)

DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PIUGS



Outlets for 2-Prong Plug

1.Tools marked ' Double Insulated" do not require grounding. They have a special double insulation system that satisfies OSHA requirements and

complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. (See Outlets for 2-Prong Plug.)

Double-insulated tools may be used in either of the 115-volt outlets shown in the preceding illustration. (See Outlets for 2-Prong Plug.)

EXTENSION CORDS

1.Grounded tools require a three-wire extension cord. Double Insulated tools can use either a two or three-wire extension cord.

2.As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.
(See Table A.)

3.The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. (See Table A.)

4.When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required (See Table A.)

5.If you are using an extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (See Table A.)

6.If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" (W in Canada) to indicate it is acceptable for outdoor use.

7.Make sure the extension cord is properly wired and in good electrical

condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.

8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (115 VOLT)					
NAMEPLATE AMPERES (At Full Load)	**25'**	**50'**	**75'**	**100'**	**150'**
0-2.0	18	18	18	18	16
2.1-3.4	18	18	18	16	14
3.5-50	18	18	16	14	12
5.1-7.0	18	16	14	12	12
7.1-12.0	18	14	12	10	*
12.1-16 0	14	12	10	-	
16.1-20.0	12	10		-	

TABLE A

***Based on limiting the line, voltage drop to five volts at 150% of the rated amperes.**

SPECIFICATIONS

Electrical Requirements	**115V/60 Hz**
Current	**7.5A**
Power	**1/2 HP**
Pumping Capacity	**1600 GPH Max.**
Inlet & Outlet Size	**GHT3/4**
Pump Lift Capacity	**120 Feet Max.**

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

LIST OF CONTENTS

Description	Qty
Portable Utility Pump	1
Filter	1
Carbon Brush	1
Brass Adapter	1
Instruction Manual	1

INSTRUCTIONS FOR PUTTING INTO USE

 Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual, including all text under subheadings therein before set up or use of this product.



TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

Note： For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

ASSEMBLY

1.Inlet and outlet hoses (not included) must be attached to the pump prior to use.

2.Attach inlet and outlet hoses to Hose Fittings (3) on Pup Facing (2). Standard garden hose fitting will work.

3 Attach the Accessory Basket Filter included with the pump to the inlet end of the inlet hose. The strainer will prevent foreign material from entering the pump and damaging or jamming it.

MOUNTING

1.Pump should be firmly mounted on a stable base prior to use,

2.The pump and its electrical connections should be mounted so that they remain dry. Water may damage the pump if it enters any electrical component.

FUNCTIONS

This pump is useful for pumping clean water. Do not use it for dirty water containing large particulates.

OPERATING INSTRUCTIONS

 Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual, including all text under subheadings therein, before setting up or use of this product.

TOOL SET UP

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL

OPERATION:

Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before

performing any inspection, maintenance, or cleaning procedures-

1.This pump operates immediately when plugged in. Do not plug in this pump when dry. Always prime the pump before plugging it in.

WORK PIECE AND WORK AREA SET UD

1 Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent injury and distraction.

2 Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.

3.There must not be hazardous objects, such as utility lines or foreign objects, nearby that will present a hazard while working.

4.Protect yourself and others from the risk of electrical shock. Always wear insulated boots and gloves. Stay out of water or wet surfaces. Protect the pump and its power cord from moisture

Never operate this tool in explosive atmospheres.

GENERAL OPERATING INSTRUCTIONS

1.Attach inlet and outlet hoses (not included) to the pump. Standard garden hoses will work

2.Attach the accessory Basket Filter to the inlet end of the inlet hose.

3 Place the basket filter end of the inlet hose in the water to be pumped.

4.Rout the outlet hose so that pumped water will run off appropriately.

5.Remove Priming Plug (4) by turning counterclockwise. Fill the pump with clean water. Replace Priming Plug by turning it clockwise.

6.Plug in Power Cord (22). The pump will operate immediately. It will take a few minutes for the pump to prime and remove air from the inlet hose. Water will then flow through the hoses and pump.

7.Do not allow the Basket Filter to become clogged. Check it periodically to be sure that clear water can enter the inlet hose.

8. Do not allow the pump to run dry. Running dry, the pump will overheat, and the impeller and seals will be damaged.

9.To prevent accidents, turn off the tool and disconnect it$ power supply after use. Clean, then store the tool indoors out of children s reach.

MAINTENANCE AND SERVICING

 Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION: Unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

CLEANING, MAINTENANCE, AND LUBRICATION

1.BEFORE EACH USE. Inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.

2.AFTER USE, clean the external surfaces of the tool with a clean cloth.

3.CARBON BRUSH MAINTENANCE.

The carbon brushes may require maintenance when the motor performance of the tool decreases or stops waking completely, lb maintain the brushes:

a.Remove the brush cap on each side of the motor housing.

b.Remove the carbon brushes from the housing Keep track of which orientation the old carbon brushes were in to prevent needless wear if they are reinstalled.

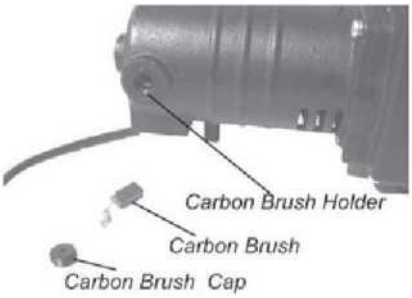
c.If either carbon brush is worn down by more than 1/2, replace both carbon brushes.

d. To clean old carbon brushes before reusing them, rub the contact areas with a pencil eraser.

e.Reinsert the old carbon brushes in the same orientation to reduce wear.

f.When installing the carbon brushes, make sure the carbon portions of the carbon brushes contact the motor armature, and that the springs face away from the motor. Also, make sure the springs operate freely.

g.Replace the brush caps. Do not over-tighten.



Note:

New carbon brushes tend to spark when first used until they wear and conform to the motor's armature.

⚠WARNING If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Troubleshooting		
Problem	**Possible Causes**	**Likely Solutions**
Tool will not start	**1.No power at the outlet.** **2.Cord is not connected.** **3.Worn out or damaged Carbon Brushes.**	**1.Check power at outlet.** **2.Check that cord is plugged in,** **3.Replace Carbon Brushes.**
Pump operates but does not pump water	**1.Pump is not primed** **2.Basket Filter is clogged.** **3.All water has been pumped out** **4.Impeller is worn out or jammed**	**1.Prime pump. See instructions on page 9.** **2.Check and clean the basket filter.** **3.Turn off the pump and complete mop up by hand** **4.Repair or replace Impeller as needed.**
⚠ Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect the power supply before service.		

PLEASE READ THE FOLLOWING CAREFULLY

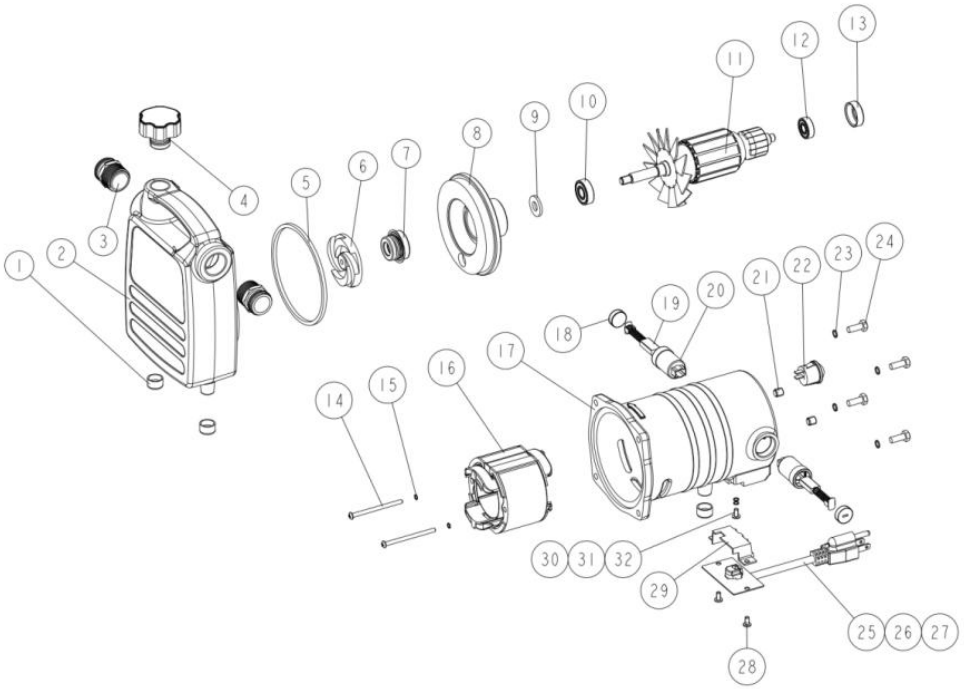
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Record Products Serial Number Here:

Note: If the product has no serial number, record the month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

ASSEMBLY DIAGRAM



List of Explosion Plans		
Number	**Spare Parts List**	**Qty**
1	**foot set**	3
2	**vortex chamber**	1
3	**copper joints**	2
4	**bolt of seal**	1
5	**O-ring**	1
6	**impeller**	1
7	**ceramics seal**	1
8	**orifice plate**	1
9	**rubber ring**	1
10	**bearing**	1

11	**rotor**	1
12	**bearing**	1
13	**bearing ring**	1
14	**screws**	2
15	**spring washer**	2
16	**Sta tor**	1
17	**pump body**	1
18	**brush cap**	2
19	**brush body**	2
20	**brush**	2
21	**screws**	2
22	**waterproof switch**	1
23	**spring washer**	4
24	**screws**	4
25	**power cable & plug**	1
26	**cable pressure plate**	1
27	**checker**	1
28	**screws**	2
29	**row box**	1
30	**screws**	1
31	**spring washer**	1
32	**toothed washer**	**1**

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